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CITY OF



CARLISLE



REPORT

ON THE

Sanitary Administration

OF THE

CITY OF CARLISLE

FOR THE YEAR

1946

BY

JAMES LAMBERTON,

M.B., Ch.B. (Edin.), D.P.H. (St. Andrews)

ACTING MEDICAL OFFICER OF HEALTH,

SCHOOL MEDICAL OFFICER,

CHIEF TUBERCULOSIS OFFICER, &c.

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*To His Worship the Mayor, and to the Aldermen and Councillors
of the City and County Borough of Carlisle.*

MR. MAYOR, LADIES AND GENTLEMEN,

I have the honour to present the report on the health of the City for the year 1946.

The report, which is again restricted in size owing to the need for strict economy in the use of paper, only includes those important essential matters which have affected the health of the citizens.

A great epoch making event in the progress of Public Health in this country was the placing on the Statute Book on the 6th November, 1946, of the National Health Service Act, 1946. This Act, which will operate as from an appointed day in 1948, is to provide for the establishment of a comprehensive health service for the whole country. A more detailed account of the administering of this Act, so far as it affects the City, will be included in the report for 1947.

The statistics for the period under review show an increase in the birth-rate, a slightly higher death-rate, a decrease in the Maternal mortality rate, and a rather disturbing increase in stillbirths and infantile mortality.

In connection with the Maternity and Child Welfare Services, the attendances at the ante-natal and child welfare clinics at Eildon Lodge were so large that it became necessary to increase the number of sessions, and engage the services of extra staff.

The need for maternity accommodation in the City became so acute that the Committee agreed to certain structural alterations at the City General Hospital in order to provide more maternity beds.

Unfortunately owing to the difficulty in obtaining certain materials necessary for the work the alterations were not completed at the end of the year.

Advancement was made in the care and training of young children under the age of 5 years when the Corporation took over from the Government the responsibility of maintaining the Day Nurseries at Raffles and Currock.

The number of cases of notifiable diseases occurring in the City during the year was considerably less than the previous year. The continued reduction in the number of cases of Scarlet Fever and Diphtheria is particularly gratifying.

The immunisation of children between the ages of 1 and 15 continued with good results, and at the end of the year the percentage of children under 15 years of age who had been immunised was 72.6.

During the year premises at Fusehill Hospital became available for the use of the Ambulance Service, and the Staff and vehicles were transferred from their offices at Newtown.

I desire to record my sincere thanks and appreciation of the willing service of all members of the staff of the Department.

To the Chairman and Members of the Health Committee, I offer my thanks for the encouragement and support they have given me during the year, and I am indebted to the Town Clerk and the other Chief Officials of the Corporation for their co-operation and assistance.

I am, Mr. Mayor, Ladies and Gentlemen,

Your obedient Servant,

JAMES LAMBERTON,

Acting Medical Officer of Health.

July, 1947.

STATISTICS.

General Statistics.

| | |
|--|----------|
| Area (acres) | 4,488 |
| Population (1946), Estimate of Registrar-General | 63,130 |
| Rateable Value | £456,459 |
| Sum represented by a Penny Rate | £1,859 |

Extracts from Vital Statistics of the Year.

| | | | | |
|--|--------|-----|------|-----------------------------|
| Live Births— | Total. | M. | F. | |
| Legitimate .. | 1470 | 770 | 700 | |
| Illegitimate .. | 107 | 54 | 53 | |
| | | | | Birth-rate, 24.9 |
| Still-births .. | 74 | 37 | 37 | |
| | | | | Rate per 1,000 births, 44.8 |
| Deaths | 870 | 424 | 446 | |
| | | | | Death-rate, 13.7 |
| Deaths from diseases and accidents of pregnancy and childbirth— | | | | |
| From Sepsis | | | | 1 |
| From other causes | | | | 2 |
| Death-rate of Infants under one year of age per 1,000 live births— | | | | |
| Legitimate | | | 49.6 | |
| Illegitimate | | | 46.7 | |
| | | | | Total, 49.4 |
| Deaths from Whooping Cough (all ages) | | | | — |
| „ Diarrhoea (under 2 years of age) | | | | 14 |

Population.

The estimate of the population at mid-year 1946, supplied by the Registrar-General, was 63,130, and this figure has been used in making the various calculations in this report.

Births.

LIVE BIRTHS.

The number of live births registered during the year was 1,577, an increase of 209 on the figure for the previous year, and the live birth-rate is 24.9 per 1,000 of the population, an increase of 2.1 on the figure for 1945.

The live birth-rate for the whole of England and Wales during 1946 was 19.1 per 1,000. The rate for the 126 great towns, to which classification Carlisle belongs, was 22.2 per 1,000, and for the 148 smaller towns of England and Wales 21.3 per 1,000.

STILL-BIRTHS.

The number of still-births registered during the year was 74, and the still-birth rate is 1.17 per 1,000 of the population. In 1945 the rate was 0.86.

The still-birth rate for the whole of England and Wales during 1946 was 0.53 per 1,000. The rate for the 126 great towns, to which classification Carlisle belongs, was 0.67 per 1,000, and for the 148 smaller towns of England and Wales 0.59 per 1,000.

ILLEGITIMATE LIVE BIRTHS.

The number of illegitimate live births registered was 107, or 67.8 per 1,000 of the total births. This shows a decrease of 25.0 upon the figures for 1945.

In 32 instances, or 30.18 per cent. of the illegitimate live births, the mother was not a resident of the City.

Deaths.

The total number of deaths registered was 1,070 as compared with 971 in 1945. 31 deaths occurred of persons belonging to the City, in Institutions and other places away from Carlisle, while the deaths of 231 persons not belonging to the City, occurred in public institutions and other places within the City. Excluding the latter figure, and adding the deaths of Carlisle residents which occurred in other districts, a net figure of 870 remains, which is equal to a crude death-rate of 13.78 per 1,000 of the estimated population at all ages, against 13.10 per 1,000 in 1945.

The death-rate for the whole of England and Wales during 1946 was 11.5 per 1,000. The rate for the 126 great towns, to which classification Carlisle belongs, was 12.7 per 1,000, and for the 148 smaller towns of England and Wales, 11.7 per 1,000.

The following Table sets out the Cause and the Ages at Death of 870 persons belonging to the City :—

| CAUSE OF DEATH. | NETT DEATHS AT THE SUBJOINED AGES OF "RESIDENTS" WHETHER OCCURRING WITHIN OR WITHOUT THE CITY | | | | | | | | | TOTAL DEATHS WHETHER OF "RESIDENTS" OR "NON-RESI- DENTS" IN INSTITUTIONS IN THE CITY. |
|---|---|---------------------|----------------------|----------------------|-----------------------|------------------------|------------------------|------------------------|------------------------|--|
| | All Ages | Under 1 year. | 1 and under 2. | 2 and under 5. | 5 and under 15. | 15 and under 25. | 25 and under 45. | 45 and under 65. | 65 and up- wards | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 |
| All Causes { Certified .. | 812 | 73 | 2 | 2 | 9 | 20 | 60 | 199 | 447 | 493 |
| Uncertified .. | 58 | 5 | — | — | — | — | 5 | 21 | 27 | 9 |
| Typhoid and Paratyphoid Fevers | — | — | — | — | — | — | — | — | — | — |
| Cerebro-Spinal Fever | 2 | 1 | — | — | — | — | — | 1 | — | 2 |
| Scarlet Fever | — | — | — | — | — | — | — | — | — | — |
| Whooping Cough | — | — | — | — | — | — | — | — | — | — |
| Diphtheria | 1 | — | 1 | — | — | — | — | — | — | 1 |
| Tuberculosis of Respiratory System | 46 | — | — | — | — | 11 | 22 | 11 | 2 | 23 |
| Other forms of Tuberculosis .. | 3 | — | — | — | 1 | — | 1 | 1 | — | 5 |
| Syphilitic Disease | 2 | — | — | — | — | — | — | 2 | — | 2 |
| Influenza | 5 | — | — | — | — | — | 1 | 3 | 1 | 1 |
| Measles | — | — | — | — | — | — | — | — | — | — |
| Acute Poliomyelitis and Polioencephalitis | — | — | — | — | — | — | — | — | — | — |
| Acute Infectious Encephalitis .. | 1 | — | — | — | — | 1 | — | — | — | 1 |
| Cancer of Buccal Cavity, Oesophagus and Uterus | 11 | — | — | — | — | — | 2 | 7 | 2 | 5 |
| Cancer of Stomach and Duodenum | 20 | — | — | — | — | — | 1 | 9 | 10 | 6 |
| Cancer of Breast | 7 | — | — | — | — | — | 1 | 5 | 1 | 3 |
| Cancer of all Other Sites | 77 | — | — | — | — | — | 6 | 32 | 39 | 51 |
| Diabetes | 2 | — | — | — | — | — | — | — | 2 | 4 |
| Intra Cranial Vascular Lesions .. | 40 | — | — | — | — | — | — | 6 | 34 | 14 |
| Heart Disease | 251 | — | — | — | 3 | 2 | 9 | 51 | 183 | 65 |
| Other Diseases of the Circulatory System | 123 | — | — | — | 1 | — | 1 | 25 | 96 | 36 |
| Bronchitis | 34 | — | — | — | — | — | 1 | 14 | 19 | 7 |
| Pneumonia | 23 | 10 | 1 | 1 | — | 1 | 1 | 4 | 5 | 17 |
| Other Respiratory Diseases | 2 | — | — | — | — | — | — | 1 | 1 | 5 |
| Ulceration of the Stomach and Duodenum | 6 | — | — | — | — | — | — | 2 | 4 | 18 |
| Diarrhoea (under 2 years) | 14 | 11 | — | — | — | — | — | — | — | 13 |
| Appendicitis | — | — | — | — | — | — | — | — | — | 5 |
| Other Digestive Diseases | 21 | 1 | — | — | 1 | 1 | 3 | 9 | 6 | 34 |
| Nephritis | 26 | — | — | — | — | 2 | 1 | 11 | 12 | 10 |
| Puerperal and Post Abortive Sepsis | 1 | — | — | — | — | — | 1 | — | — | 2 |
| Other Maternal Causes | 2 | — | — | — | — | — | 2 | — | — | 3 |
| Premature Birth | 22 | 22 | — | — | — | — | — | — | — | 29 |
| Congenital Malformations, Birth Injuries, Infantile dis. Sulicide | 27 | 27 | — | — | — | — | — | — | — | 34 |
| Road Traffic Accidents | 6 | — | — | — | 2 | — | — | 1 | 3 | 2 |
| Other Violent Causes | 23 | 3 | — | 1 | 1 | 1 | 5 | 2 | 10 | 31 |
| All Other Causes | 68 | — | — | — | — | 1 | 6 | 17 | 41 | 62 |
| TOTALS | 870 | 78 | 2 | 2 | 9 | 20 | 65 | 220 | 471 | 502 |

The following Table shows the Vital Statistics for the whole City during 1946 and previous years :—

| YEAR. | Registrar-General's Estimate of Population to Middle of each Year | BIRTHS | | | TOTAL DEATHS REGISTERED IN THE DISTRICT | | TRANSFERABLE DEATHS | | NETT DEATHS BELONGING TO THE DISTRICT | | | |
|-------|--|-----------------------|--------|------|---|------|---|---|--|----------------------------------|----------------|------|
| | | Uncorrected Number | Nett | | Number | Rate | of Non-residents registered in the District | of Residents not registered in the District | Under 1 Year of age | | AT ALL AGES | |
| | | | Number | Rate | | | | | Number | Rate per 1,000 Nett Births | Number | Rate |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| 1942 | 64,810 | 1289 | 1118 | 17.3 | 888 | 13.7 | 212 | 49 | 52 | 46.5 | 725 | 11.2 |
| 1943 | 62,770 | 1343 | 1103 | 17.6 | 936 | 14.9 | 231 | 35 | 43 | 38.9 | 740 | 11.8 |
| 1944 | 60,250 | 1505 | 1187 | 19.7 | 983 | 16.3 | 229 | 32 | 60 | 50.5 | 786 | 13.0 |
| 1945 | 59,960 | 1368 | 1101 | 18.4 | 971 | 16.2 | 233 | 48 | 62 | 56.3 | 786 | 13.1 |
| 1946 | 63,130 | 1577 | 1307 | 20.7 | 1070 | 16.9 | 231 | 31 | 78 | 59.6 | 870 | 13.7 |

Inquests.

During the year the City Coroner held 65 inquests. Of this number 33 related to deaths of persons who resided within the City, and 32 to persons who resided in other districts but who died within the City. 8 related to children under five years of age.

Uncertified Deaths.

62 deaths were registered of persons belonging to the City in which no certificate was given by a medical man, and in which no inquest was held.

During 1945, 68 such deaths were registered.

Mortuary.

58 bodies were removed to the Public Mortuary, post-mortem examinations being made in 52 instances.

Cancer.

The number of deaths registered as due to cancer was 115, as against 128 in 1945, the rate of mortality from this disease being 1.8 per 1,000 of the population.

| Site of Disease | AGE GROUPS. | | | | | | | | | | | | | |
|---------------------------------|----------------|----|------|----|-------|----|-------|----|-------|----|-------|----|-------|----|
| | Under One Year | | 1—25 | | 25—35 | | 35—45 | | 45—55 | | 55—65 | | 65—75 | |
| | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. |
| Buccal Cavity and Pharynx | — | — | — | — | — | — | — | — | 1 | — | 1 | — | — | — |
| Digestive Organs and Peritoneum | — | — | — | — | — | — | — | 2 | 6 | 3 | 11 | 8 | 6 | 14 |
| Respiratory System .. | — | — | — | — | — | 1 | — | — | 5 | — | 3 | — | 1 | — |
| Uterus .. | — | — | — | — | — | — | — | 1 | — | 3 | — | 1 | — | — |
| Other female genital organs | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — |
| Breast .. | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — |
| Male genital organs .. | — | — | — | — | 1 | — | 1 | — | — | — | — | 5 | — | 1 |
| Urinary organs | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — |
| Skin .. | — | — | — | — | — | — | — | — | — | — | — | — | 3 | — |
| Brain and Nervous System .. | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Other organs | — | — | — | — | — | — | — | 2 | 2 | 1 | 1 | — | 1 | 3 |
| Totals .. | — | — | — | — | 1 | 2 | 1 | 6 | 14 | 7 | 18 | 14 | 12 | 18 |
| | | | | | | | | | | | | | 6 | 62 |
| | | | | | | | | | | | | | | 53 |

DEATHS FROM CANCER, 1937-46.

1937. 1938. 1939. 1940. 1941. 1942. 1943. 1944. 1945. 1946.

83 .. 83 .. 98 .. 97 .. 114 .. 107 .. 104.. 113 .. 128 .. 115

GENERAL PROVISION OF HEALTH SERVICES.

The various services outlined in previous reports continued to be available throughout the year.

SANITARY CIRCUMSTANCES.

Water.

An abundant supply of water has been maintained in the Corporation's area of supply throughout the year.

Chemical analyses and bacteriological examinations of the water continue to show that the supply is of excellent quality.

| | | | <i>No. of Gallons.</i> | <i>Gallons per head per day.</i> | |
|------|----|----|------------------------|--------------------------------------|-------|
| 1945 | .. | .. | 1,192,820,000 | .. | 40.85 |
| 1946 | .. | .. | 1,226,000,000 | .. | 41.99 |

Bacteriological results of Samples of Water taken from a Domestic Tap.

QUANTITATIVE ANALYSIS.

| Date when sample was taken. | No. of Colonies in | | | | | |
|-----------------------------------|--------------------|--------------|--------------|--------------|--------------|--------------|
| | 0.1 M.L. | | 1 M.L. | | 10 M.L. | |
| | At 22° C. | At 37° C. | At 22° C. | At 37° C. | At 22° C. | At 37° C. |
| 18th March .. | — | — | 5 | 1 | 72 | 12 |
| 20th August .. | — | — | 2 | — | 27 | 3 |
| 16th December | — | — | 8 | — | 73 | 9 |

Results of Chemical Analyses of Samples of Water taken from a Domestic Tap.

| RESULTS SHOWN IN PARTS PER 100,000. | 21ST MARCH | 21ST AUGUST | 6TH DEC. |
|--|----------------------|----------------------|----------------------|
| Chlorine as Chlorides .. | 1.1000 | 1.1500 | .9000 |
| Nitrogen as Nitrates .. | .0535 | .0230 | .0261 |
| Ammonia | .0029 | .0038 | .0025 |
| Albuminoid Ammonia .. | .0062 | .0060 | .0043 |
| Oxygen absorption .. | .0800 | .2336 | .2000 |
| Injurious Metals (Lead and Copper) | none | none | none |
| Total Solid Matter dried at 100° C. | 11.000 | 12.000 | 13.000 |
| Temporary Hardness .. | 3.8° | 2.2° | 4.2° |
| Permanent Hardness .. | 4.0° | 5.0° | 3.6° |
| P.H. Value | 7.4 | 7.3 | 7.2 |
| Appearance in two-foot tube | Not quite bright. | Not quite bright. | Not quite bright. |
| Odour when heated to 50° C. | none | none | none |
| Microscopical Examina- tion | Satisfactory | Satisfactory | Satisfactory |

Sewerage and Sewage Disposal.

The preparation of drawings and calculations in connection with the proposed enlarging and modernising of Willow Holme Sewage Disposal Works has been proceeding.

Owing to the shortage of technical staff and the demands made on the existing staff, particularly in connection with housing, progress has not been made as rapidly as was anticipated.

Several new sewers in connection with the development of Housing Estates have been completed during the past year. The most important of these are the Raffles-Newtown (Croft House) Estate, Wigton Road Estate, and the Petteril Bank (North and South) Estates.

Work has been proceeding during the year on the Harraby and Belah Housing Estate sewers, and these are nearing completion.

Proposals for the construction of relief sewers for the Harraby and Belah districts of the City were submitted to the Ministry of Health during the year, but approval to the scheme was not received in time for the work to be commenced in 1946.

Eradication of Bed Bugs.

Complaints were received of vermin infestation at 9 houses. Tenants of six houses were visited, and advised, and insecticide was issued, together with directions for its proper use. In addition works were carried out by the Department at three houses, and the Housing Department carried out disinfestation work at four Council houses.

The furniture and effects of 15 tenants entering into Corporation houses were disinfested at the Hydrogen Cyanide Disinfestation Plant.

HOUSING.

No specific action under the Housing Acts was taken during the year. A total of 629 inspections were made in respect of 313 houses with a view to securing certain structural works and improvements by informal action.

To meet the special circumstances arising under the Defence (General) Regulations, 1939, 52 houses, which had been closed under the Housing Acts, were in occupation under short term licence. These houses were tenanted by persons rendered homeless as a result of enemy action.

Housing Act, 1936—Part IV.—Overcrowding.

With the continuance of the Emergency, tables hitherto included, relating to overcrowding, have been suspended. The exact position is still indefinite. The Council have adopted a new Scheme for the letting of Corporation houses, which takes cognizance, amongst other things, of overcrowding.

INSPECTION AND SUPERVISION OF FOOD.

Milk Supply.

A relatively small proportion of the milk supply is produced within the City. Only 10 producers, occupying 22 sheds, are on the register. At only one of these premises is milk bottled.

One-hundred and forty-eight samples of milk were procured during the year, fourteen for chemical analysis under the Food & Drugs Act, and one-hundred and thirty-four for bacteriological examination under the Milk (Special Designations) Regulations.

In the Emergency Scheme which has operated since January, 1942, all milk is retailed by two companies, one of which holds the Local Authority's Licence for pasteurisation (positive holding), while the other retails milk as heat treated (high temperature short holding) and T.T. (untreated) milk.

Of the samples of milk obtained and submitted for bacteriological examination, the following are the results :

| Designation of Milk. | | | Number Tested. | Satisfactory. | Unsatisfactory. |
|----------------------|--|----|----------------|---------------|-----------------|
| 65 | <i>Samples of T.T. Milk.</i> | | | | |
| | Methylene Blue Test | .. | 59 | 33 | 26 |
| | Tests of presence of Coliform Bacilli in 1/100 m.l. .. | .. | 56 | 26 | 30 |
| | Inoculation for Tuberculosis .. | .. | 9 | 9 | — |
| 4 | <i>Samples of Accredited Milk.</i> | | | | |
| | Methylene Blue Test | .. | 4 | 1 | 3 |
| | Coliform Bacilli | .. | 3 | 2 | 1 |
| | Inoculation for Tuberculosis .. | .. | 2 | 2 | — |
| 29 | <i>Samples of Pasteurised Milk.</i> | | | | |
| | Phosphatase Test | .. | 29 | 29 | — |
| | Coliform Bacilli | .. | 7 | 3 | 4 |
| | Methylene Blue Test | .. | 29 | 28 | 1 |
| 30 | <i>Samples of Heat Treated Milk.</i> | | | | |
| | Phosphatase Test | .. | 30 | 28 | 2 |
| | Methylene Blue Test | .. | 30 | 25 | 5 |
| | Coliform Bacilli | .. | 9 | — | 9 |
| 6 | <i>Samples Ungraded Milk.</i> | | | | |
| | Methylene Blue Test | .. | 6 | 5 | 1 |
| | Coliform Bacilli | .. | 6 | 5 | 1 |
| | Inoculation for Tuberculosis .. | .. | 5 | 5 | — |

Ice Cream.

The Sanitary Inspector, on two occasions, circularised all manufacturers and retailers of Ice Cream directing attention to the importance of cleanliness and method throughout manufacture and retail sale, and particularly to the personal aspect. Sixteen samples were submitted to the Bacteriologist during the year.

PREVALENCE OF, AND CONTROL OVER, INFECTIOUS DISEASES.

Infectious Diseases Generally.

694 notifications of infectious diseases were received during the year, 104 of which related to various forms of tuberculosis, and 590 to other infectious diseases.

15 deaths were certified as due to zymotic disease, equal to a zymotic death-rate of 0.23 per 1,000 of the population. In the previous year 10 deaths were certified as due to zymotic disease.

Table showing the Age Groups of the Cases of Infectious Diseases notified during 1946.

| | Number of Cases notified at various Ages. | | | | | | | Total Number of cases notified. | Number of cases in- correctly notified. | Net Number of cases notified. | Number of cases removed to hospital. |
|-----------------------------|---|------------|-------------|--------------|--------------|--------------|-----------------|---------------------------------|---|-------------------------------|--------------------------------------|
| | Under 1 year. | 1—5 years. | 5—15 Years. | 15—25 Years. | 25—45 years. | 45—65 years. | 65 and upwards. | | | | |
| Scarlet Fever | — | 24 | 45 | 9 | 4 | 1 | — | 83 | 7 | 76 | 61 |
| Diphtheria | — | 4 | 13 | 8 | 7 | — | — | 32 | 4 | 28 | 32 |
| Cerebro-spinal Meningitis.. | 1 | 1 | 2 | 5 | — | 4 | — | 13 | 2 | 11 | 13 |
| Measles | 13 | 59 | 16 | 1 | 1 | — | — | 90 | 5 | 85 | 3 |
| Whooping Cough | 27 | 140 | 30 | — | 1 | 1 | — | 199 | 2 | 197 | 7 |
| Erysipelas | — | — | 1 | 2 | 5 | 7 | 7 | 22 | 2 | 20 | 5 |
| Pneumonia— | | | | | | | | | | | |
| Acute Primary | 2 | 4 | 11 | 12 | 15 | 12 | 4 | 60 | 2 | 58 | 21 |
| Acute Influenzal | — | — | 9 | 20 | 10 | 2 | 2 | 43 | — | 43 | 29 |
| Typhoid Fever | — | — | — | — | — | — | — | — | — | — | — |
| Paratyphoid Fever | — | — | — | — | — | — | — | — | — | — | — |
| Dysentery | 1 | 3 | — | 1 | 4 | 1 | — | 10 | 1 | 9 | 10 |
| Puerperal Pyrexia | — | — | — | 12 | 9 | — | — | 21 | 5 | 16 | 20 |
| Ophthalmia Neonatorum .. | 19 | — | — | — | — | — | — | 19 | — | 19 | 11 |
| Malaria | — | — | — | 1 | 25 | — | — | 26 | — | 26 | 24 |
| Poliomyelitis | — | — | — | — | 1 | — | — | 1 | — | 1 | 1 |
| Acute Poliioencephalitis .. | — | — | — | 1 | — | — | — | 1 | — | 1 | 1 |
| Encephalitis Lethargica .. | — | — | — | — | — | — | — | — | — | — | — |
| Pulmonary Tuberculosis .. | — | — | 11 | 26 | 34 | 17 | 2 | 90 | — | 90 | — |
| Other forms of Tuberculosis | — | 3 | 4 | 3 | 4 | — | — | 14 | — | 14 | — |

Scarlet Fever.

83 cases of Scarlet Fever were notified as against 180 in the previous year, and the diagnosis was not confirmed in seven cases. The type of the disease was mild.

73 per cent. of the cases notified were removed to the Infectious Diseases Hospital.

Diphtheria.

32 cases of Diphtheria were notified as compared with 55 in 1945.

In 4 instances the diagnosis was not confirmed.

There was 1 death from the disease, being that of a child aged 14 months who had not been immunised.

Of 14 cases of Diphtheria occurring among children aged 1-15 years, 9 had previously been immunised. All made a satisfactory recovery.

No return case of Diphtheria occurred.

Immunisation.

During the year 1006 children received the full course of inoculations against Diphtheria, viz. : 266 school children and 740 pre-school children.

The position in this respect on the 31st December, 1946, was as follows :—

| | | | |
|--------|----------------------------------|---|-------|
| 7,431 | Children of school age immunised | = | 80.3% |
| 2,688 | do. pre-school age do. | = | 57.4% |
| <hr/> | | | |
| 10,119 | do. 1—15 years do. | = | 72.6% |

Anti-Diphtheria Serum.

Five applications were made by medical practitioners for the free supply of anti-diphtheria serum and 64,000 units were supplied.

Typhoid, Para-Typhoid, Typhus or Continued Fever.

No cases of these diseases occurred in the City.

Smallpox.

No case was notified during the year.

Many notices were received from Port Health Authorities regarding contacts with the disease who were proceeding to this Area. They, consisting almost entirely of Service Cases returning home on leave from abroad, were kept under careful observation, and in no case did the disease develop.

No vaccinations were undertaken during the year under the Public Health (Smallpox Prevention) Regulations, 1917.

Malaria, Dysentery, and Tetanus.

26 notifications of Malaria (contracted abroad), and 10 notifications of Dysentery were received. 3 patients suffering from Dysentery were admitted to the Infectious Diseases Hospital.

Pneumonia—Acute Primary and Influenzal.

103 notifications of Pneumonia were received during the year, two of which were incorrectly notified. In 43 instances the disease was stated to be of the acute influenzal type, and in 60 instances of the acute primary type.

There was 1 death from primary Pneumonia and 1 from Influenzal Pneumonia amongst the notified cases.

Influenza.

5 deaths of residents were registered as due to Influenza, as compared with 3 in 1945.

Encephalitis Lethargica.

No case was notified during the year.

Cerebro-Spinal Meningitis.

13 notifications of Cerebro-spinal Meningitis were received during the year, as against 11 in the previous year. The diagnosis was confirmed in all but two cases. All the cases were admitted to the Infectious Diseases Hospital.

Acute Anterior Poliomyelitis and Acute Polioencephalitis.

One case of each of these diseases was notified during the year.

Scabies.

223 cases of this condition were treated during the year at the Cleansing Centre at the School Clinic ; 5 of these were adults, 198 school children and 20 pre-school children.

Other Infectious Diseases.

319 notifications were received from School Attendance Officers and Head Teachers in respect of Measles, Chicken-pox, Whooping Cough and Mumps.

Notification Fees.

The total amount paid in fees for notification of all notifiable diseases during 1946 was £46 11s. 0d.

INFECTIOUS DISEASES HOSPITAL.

| | In Hosp. 1st Jan. | Admitted during year | Dis- charged | Died | In Hosp. 31st Dec. |
|---|----------------------|----------------------------|-----------------|------|-----------------------|
| Scarlet Fever .. | 7 | 57 | 63 | — | 1 |
| Diphtheria .. | 12 | 35 | 47 | — | — |
| Cerebro-Spinal Meningitis | 1 | 13 | 11 | 2 | 1 |
| Pneumococcal Meningitis | — | 1 | — | 1 | — |
| Measles and German | | | | | |
| Measles .. | — | 2 | 2 | — | — |
| Whooping Cough .. | — | 7 | 6 | — | 1 |
| Chickenpox .. | — | 9 | 9 | — | — |
| Mumps .. | 1 | 2 | 3 | — | — |
| Erysipelas .. | 1 | 3 | 4 | — | — |
| Pneumonia .. | — | 3 | 3 | — | — |
| Acute Polioencephalitis | — | 1 | 1 | — | — |
| Acute Encephalitis .. | — | 1 | 1 | — | — |
| Acute Anterior-Polio- myelitis .. | — | 1 | 1 | — | — |
| Acute Gastro Enteritis | — | 27 | 18 | 6 | 3 |
| Dysentery .. | 1 | 3 | 4 | — | — |
| Puerperal Pyrexia and Other Puerperal Conditions .. | — | 59 | 57 | — | 2 |
| Ophthalmia Neonatorum | — | 6 | 6 | — | — |
| Pemphigus Neonatorum | — | 4 | 3 | — | 1 |
| Other Conditions— | | | | | |
| Miscellaneous .. | 3 | 56 | 57 | 1 | 1 |
| | 26 | 290 | 296 | 10 | 10 |

Of the total of 290 cases admitted to the Infectious Diseases Hospital during the year 203 were City Residents, 65 came from surrounding areas and 22 were Service Cases.

Many of the cases from the surrounding areas were transferred from the Cumberland Infirmary or the City General Hospital where they had been receiving treatment for other conditions and had developed an infectious ailment necessitating their transfer to the Fever Hospital.

TUBERCULOSIS.

Notifications.

The number of primary notifications of Tuberculosis received during the year was 104, being an increase of 7 over the figure for 1945. 90 were in respect of Pulmonary Tuberculosis, and 14 of the non-pulmonary type of the disease. 10 additional pulmonary cases came to the notice of the Medical Officer of Health otherwise than by formal notification, making a total of 114 new cases. The sex incidence of all new cases was :—

| | | | | Males | | Females |
|---------------|----|----|----|-------|----|---------|
| Pulmonary | .. | .. | .. | 49 | .. | 51 |
| Non-Pulmonary | .. | .. | .. | 5 | .. | 9 |
| Total | | | | 54 | .. | 60 |

Table showing the number of formal notifications, number of deaths and death-rate during the past five years.

| Year | Formal Notifications | | Number of Deaths | Death Rate |
|------|----------------------|---------------|------------------|------------|
| | Pulmonary | Non-Pulmonary | | |
| 1942 | 84 | 32 | 45 | 0.7 |
| 1943 | 65 | 27 | 40 | 0.6 |
| 1944 | 86 | 26 | 48 | 0.8 |
| 1945 | 73 | 24 | 41 | 0.68 |
| 1946 | 90 | 14 | 49 | 0.77 |

Formal Notifications.

Summary of notifications during the period from the 1st January, 1946, to 31st December, 1946.

| Age periods | Number of Primary Notifications of new cases of Tuberculosis. | | | | | | | | | | | Total (all ages) | Total Notification |
|---------------|---|-----|------|-------|-------|-------|-------|-------|-------|-------|--------------|------------------|--------------------|
| | 0-1 | 1-5 | 5-10 | 10-15 | 15-20 | 20-25 | 25-35 | 35-45 | 45-55 | 55-65 | 65 & upwards | | |
| Pulmonary— | | | | | | | | | | | | | |
| Males .. | — | — | 3 | 1 | 4 | 4 | 17 | 4 | 7 | 3 | 1 | 44 | 46 |
| Females .. | — | — | 3 | 4 | 7 | 11 | 10 | 3 | 3 | 4 | 1 | 46 | 49 |
| Non-Pulmonary | | | | | | | | | | | | | |
| Males .. | — | 1 | 1 | 1 | — | 1 | — | 1 | — | — | — | 5 | 5 |
| Females .. | — | 2 | 2 | — | — | 2 | 1 | 2 | — | — | — | 9 | 10 |
| Totals | — | 3 | 9 | 6 | 11 | 18 | 28 | 10 | 10 | 7 | 2 | 104 | 110 |

Supplemental Return.

New cases of Tuberculosis coming to the knowledge of the Medical Officer of Health otherwise than by formal notification.

| Age periods | 0-1 | 1-5 | 5-10 | 10-15 | 15-20 | 20-25 | 25-35 | 35-45 | 45-55 | 55-65 | 65 & upwards | Total Cases |
|---------------|-----|-----|------|-------|-------|-------|-------|-------|-------|-------|--------------|-------------|
| Pulmonary— | | | | | | | | | | | | |
| Males .. | — | — | — | — | 2 | — | 1 | 1 | — | 1 | — | 5 |
| Females .. | — | — | — | — | — | 2 | 1 | 1 | 1 | — | — | 5 |
| Non-Pulmonary | | | | | | | | | | | | |
| Males .. | — | — | — | — | — | — | — | — | — | — | — | — |
| Females .. | — | — | — | — | — | — | — | — | — | — | — | — |
| Totals .. | — | — | — | — | 2 | 2 | 2 | 2 | 1 | 1 | — | 10 |

| Source of Information | No. of Cases | |
|---|--------------|---------------|
| | Pulmonary | Non-Pulmonary |
| Death { From Local Registrars | 1 | — |
| Returns { Transferable Deaths from Registrar-General | — | — |
| Posthumous Notifications | 3 | — |
| "Transfers" from other areas (other than Transferable Deaths) | 6 | — |
| Other sources if any (specify) | — | — |

Mortality.

The number of deaths of City residents was 49, equal to a death-rate of 0.77 per 1,000 of the population at all ages. 45, or 91.8 per cent. of the deaths were due to pulmonary tuberculosis, equal to a death-rate of 0.71 per 1,000.

Age and sex distribution of new cases and deaths from tuberculosis, 1946.

| Age Periods | New Cases | | | | Deaths | | | |
|----------------|-----------|----|--------------|----|-----------|----|--------------|----|
| | Pulmonary | | Non-Pulm'ary | | Pulmonary | | Non-Pulm'ary | |
| | M. | F. | M. | F. | M. | F. | M. | F. |
| 0—1 | — | — | — | — | — | — | — | — |
| 1—5 | — | — | 1 | 2 | — | — | — | — |
| 5—10 | 3 | 3 | 1 | 2 | — | — | — | — |
| 10—15 | 1 | 4 | 1 | — | — | — | 1 | — |
| 15—25 | 10 | 20 | 1 | 2 | 3 | 7 | — | — |
| 25—35 | 18 | 11 | — | 1 | 4 | 8 | — | 1 |
| 35—45 | 5 | 4 | 1 | 2 | 5 | 6 | — | — |
| 45—55 | 7 | 4 | — | — | 6 | — | — | 2 |
| 55—65 | 4 | 4 | — | — | 1 | 3 | — | — |
| 65 and upwards | 1 | 1 | — | — | 2 | — | — | — |
| Totals .. | 49 | 51 | 5 | 9 | 21 | 24 | 1 | 3 |

12.2 per cent of the total deaths occurred in cases not notified or within one week of receipt of notification.

Period of survival after notification, of persons dying during 1946 :—

| | Pulmonary | Percentage | Non-Pulmonary | Percentage |
|--------------------------------|-----------|------------|---------------|------------|
| Not notified .. | 2 | 4.5 | — | — |
| Died before notification | 1 | 2.2 | — | — |
| Died within 7 days | 3 | 6.6 | — | — |
| 0—1 month .. | 2 | 4.5 | 1 | 25.0 |
| 1—3 months .. | 7 | 15.5 | — | — |
| 3—6 „ .. | 2 | 4.5 | — | — |
| 6—9 „ .. | 2 | 4.5 | — | — |
| 9—12 „ .. | 2 | 4.5 | — | — |
| 1—2 years | 12 | 26.6 | 1 | 25.0 |
| 2—3 „ | 5 | 11.1 | — | — |
| 3 years and upwards | 7 | 15.5 | 2 | 50.0 |
| Total | 45 | 100.0 | 4 | 100.0 |

The ratio of non-notified tuberculosis deaths to the total tuberculosis deaths was as 1 is to 25. This is considerably lower than in the previous year.

Dispensary Work.

During the year 267 cases, excluding contacts, were examined at the Dispensary. Of these 112 were found to be definitely tuberculous, 99 being pulmonary and 13 non-pulmonary types of the disease.

The number of contacts examined was 118, as compared with 76 in the previous year, viz., 61 adults and 57 children ; 2 adult contacts and 3 child contacts were found to be suffering from pulmonary tuberculosis and 1 child contact from the non-pulmonary type of the disease.

At the beginning of the year there were 252 pulmonary and 94 non-pulmonary cases on the Dispensary Register. After the yearly review there remained 276 pulmonary and 86 non-pulmonary cases still on the register.

During the year 14 cases were written off the Dispensary Register as cured, 48 were transferred to other areas or lost sight of, and 40 cases died.

Government Allowance Scheme.

The Government Scheme of Allowances for cases of Pulmonary Tuberculosis continued to function throughout the year. Patients receiving treatment under the Authority's Scheme were given allowances in 53 cases during the year.

Institutional Treatment.

Under the Authority's Tuberculosis Scheme patients are admitted to the following institutions :—

(1) *Blencathra Sanatorium, Threlkeld, Cumberland.*

Throughout the year 67 cases in all were dealt with. The average duration of residential treatment in respect of 49 patients discharged during the year was 151 days.

(2) *City General Hospital.*

During the year 65 cases were dealt with, and the average number of beds occupied throughout the year was 11.

(3) *Robert Jones and Agnes Hunt Orthopaedic Hospital, Oswestry.*

Of the 8 cases admitted to this Institution under the Authority's Scheme during the year, 6 were discharged after receiving treatment, and the 2 remaining cases were still under treatment in Hospital at the end of the year. The average stay during the year was 100 days per patient.

VENEREAL DISEASES.

During the year 214 persons residing in Carlisle were under treatment or observation for the first time at the Clinic at the Cumberland Infirmary, as compared with 168 in 1945.

34 patients were found to be suffering from syphilis, 67 from gonorrhoea, and 113 from non-Venereal or undiagnosed conditions. 3,012 attendances were made by these patients.

2 medical practitioners in the area are entitled to free supplies of arsenobenzol compounds, but no doses were issued during the year.

69 specimens of pathological material for Wassermann re-action were sent on behalf of general practitioners.

No action was taken under the Venereal Diseases Act 1917.

Clinics.

Clinics are held at the Cumberland Infirmary, Carlisle, on the following days:—

MEN—

Wednesdays, 2-30 p.m. and 6 p.m.

Thursdays, 6 p.m.

WOMEN AND CHILDREN—

Mondays, 2-30 p.m.

Wednesdays, 10 a.m.

Thursdays, 4-30 p.m.

Return relating to all persons who were treated at the Treatment Centre at the Cumberland Infirmary during the year ended the 31st December, 1946.

| | Syphilis | | Soft Chancere | | Gonorrhœa | | Conditions other than Venereal | | Totals | | |
|---|----------|-----|------------------|----|-----------|----|--------------------------------------|----|--------|-----|--------|
| | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. | Totals |
| 1. Number of cases on 1st January under treat- ment or observation | 71 | 99 | 1 | — | 36 | 33 | 4 | — | 112 | 132 | 244 |
| 2. Number of cases removed from the register during any previous year which returned during the year under report for treatment or observation of the same infection | 8 | 10 | — | — | 4 | 2 | — | — | 12 | 12 | 24 |
| 3. Number of cases dealt with for the first time during the year under report (exclusive of cases under Item 4) suffering from :— | | | | | | | | | | | |
| Syphilis, primary | 19 | 10 | — | — | — | — | — | — | 19 | 10 | 29 |
| " secondary | 6 | 13 | — | — | — | — | — | — | 6 | 13 | 19 |
| " latent in 1st year of infection | 1 | 3 | — | — | — | — | — | — | 1 | 3 | 4 |
| " all later stages | 12 | 9 | — | — | — | — | — | — | 12 | 9 | 21 |
| " congenital | 2 | 3 | — | — | — | — | — | — | 2 | 3 | 5 |
| Soft Chancere | — | — | — | — | — | — | — | — | — | — | — |
| Gonorrhœa, 1st year of infection | — | — | — | — | 106 | 43 | — | — | 106 | 43 | 149 |
| " later | — | — | — | — | 1 | 1 | — | — | 1 | 1 | 2 |
| Conditions other than venereal | — | — | — | — | — | — | 173 | 78 | 173 | 78 | 251 |
| Conditions remaining undiagnosed at 31st December | — | — | — | — | — | — | — | 1 | — | 1 | 1 |
| 4. Number of cases dealt with for the first time during the year under report known to have received treatment for the same infection or to have been under observation at other Centres | 52 | 11 | 3 | — | 56 | 2 | 1 | — | 112 | 13 | 125 |
| Totals of Items 1, 2, 3 and 4 | 171 | 158 | 4 | — | 203 | 81 | 178 | 79 | 556 | 318 | 874 |

5. Number of cases discharged after completion of treatment and final tests of cure, or after diagnosis as non-venereal

6. (a). Number of cases which ceased to attend before completion of treatment and were, on first attendance, suffering from :—

Syphilis, primary
 " secondary
 " latent in 1st year of infection
 " all later stages
 " congenital
 Soft Chancre
 Gonorrhoea, 1st year of infection
 " later

6 (b). Number of Cases under treatment or observation which died :—

From the Disease
 From Treatment
 From Other Causes

7. Number of cases which ceased to attend after completion of treatment but before final tests of cure

8. Number of cases transferred to other centres or to institutions, or to care of private practitioners

9. Number of cases remaining under treatment or observation on 31st December

Totals of Items 5, 6, 7, 8 and 9

10. Number of attendances :—

(a) for individual attention of medical officers
 (b) for intermediate treatment, *e.g.*, irrigation, dressing

Total Attendances ..

| | | | | | | | | | | | |
|---|------|------|---|---|-----|-----|-----|-----|------|------|------|
| 5. Number of cases discharged after completion of treatment and final tests of cure, or after diagnosis as non-venereal | 12 | 7 | 2 | — | 54 | 34 | 163 | 70 | 231 | 111 | 342 |
| 6. (a). Number of cases which ceased to attend before completion of treatment and were, on first attendance, suffering from :— | | | | | | | | | | | |
| Syphilis, primary | 6 | 7 | — | — | — | — | — | — | 6 | 7 | 13 |
| " secondary | 7 | 3 | — | — | — | — | — | — | 7 | 3 | 10 |
| " latent in 1st year of infection | — | — | — | — | — | — | — | — | — | — | — |
| " all later stages | 8 | 1 | — | — | — | — | — | — | 8 | 1 | 9 |
| " congenital | 1 | 4 | — | — | — | — | — | — | 1 | 4 | 5 |
| Soft Chancre | — | — | — | — | — | — | — | — | — | — | — |
| Gonorrhoea, 1st year of infection | — | — | — | — | 7 | 5 | — | — | 7 | 5 | 12 |
| " later | — | — | — | — | — | — | — | — | — | — | — |
| 6 (b). Number of Cases under treatment or observation which died :— | | | | | | | | | | | |
| From the Disease | — | — | — | — | — | — | — | — | — | — | — |
| From Treatment | — | — | — | — | — | — | — | — | — | — | — |
| From Other Causes | 2 | — | — | — | — | — | — | — | 2 | — | 2 |
| 7. Number of cases which ceased to attend after completion of treatment but before final tests of cure | 14 | 12 | — | — | 65 | 15 | — | — | 79 | 27 | 106 |
| 8. Number of cases transferred to other centres or to institutions, or to care of private practitioners | 22 | 26 | 2 | — | 28 | 10 | 6 | 1 | 58 | 37 | 95 |
| 9. Number of cases remaining under treatment or observation on 31st December | 99 | 98 | — | — | 49 | 17 | 9 | 8 | 157 | 123 | 280 |
| Totals of Items 5, 6, 7, 8 and 9 | 171 | 158 | 4 | — | 203 | 81 | 178 | 79 | 556 | 318 | 874 |
| 10. Number of attendances :— | | | | | | | | | | | |
| (a) for individual attention of medical officers | 1775 | 1713 | 9 | — | 649 | 330 | 338 | 153 | 2771 | 2196 | 4967 |
| (b) for intermediate treatment, <i>e.g.</i> , irrigation, dressing | 32 | 21 | — | — | 184 | 7 | 63 | — | 279 | 28 | 307 |
| Total Attendances .. | 1807 | 1734 | 9 | — | 833 | 337 | 401 | 153 | 3050 | 2224 | 5274 |

Return relating to all persons who were treated at the Treatment Centre at the Cumberland Infirmary during the year ended 31st December, 1946—cont.

| | Under 1 year | | 1 and under 5 years | | 5 and under 15 years | | 15 years and over | | Totals | |
|--|---------------|----------------|---------------------|-----|----------------------|----------------|----------------------|----|--|----|
| | M. | F. | M. | F. | M. | F. | M. | F. | M. | F. |
| | | | | | | | | | | |
| 11. Number of cases of congenital syphilis in Item 3 above classified according to age periods .. | — | 2 | 1 | — | — | — | 1 | 1 | 2 | 3 |
| 12. Pathological Work :— | | | | | | | | | | |
| (a) No. of specimens examined at, and by the Medical Officer of the Treatment Centre | Microscopical | | Cultural | | Serum | | | | Others for diagnosis of Venereal Disease | |
| | For Syphilis | For Gonorrhoea | for Gonorrhoea | | For Syphilis | For Gonorrhoea | Cerebro-spinal fluid | | | |
| | 24 | 118 | — | — | — | — | — | — | — | — |
| (b) No. of specimens from patients attending at the Treatment Centre sent for examination to an approved laboratory | 1 | 245 | 2 | 850 | 114 | — | — | — | — | — |
| | | | | | | | | | | |

The following is the Report of the Clinical Officer (Dr. A. C. B. McMurtrie) :—

The incidence of both Syphilis and Gonorrhoea continued to rise during the year 1946, both in the Country generally and in the City of Carlisle.

At the Cumberland Infirmary treatment centre the new patients (excluding all who had been treated elsewhere) were 481 compared with 373 in the previous year. Of these 214 resided in Carlisle compared with 169 in 1945. Below, the figures for 1945 are in brackets.

The new cases of early Syphilis were 52 (44) and of early Gonorrhoea 149 (112). 34 (31) new cases of Syphilis in all stages resided in Carlisle and 67 (56) of Gonorrhoea. These figures are shown in item 3 of the table and are of prime importance. They show that in the City of Carlisle there was an increase of 3 cases of Syphilis and 11 of Gonorrhoea. The figures for male and female patients are of interest. Syphilis in the male increased by 11, Gonorrhoea by 40 ; in the female, Syphilis decreased by 3 and Gonorrhoea by 3. This must be due to demobilisation, and the men returning from overseas appear to be more liable to contract venereal disease than the women, who were mostly at home. Another explanation may be that the women are no longer as ready to come to the clinic for treatment.

The total attendance of all patients at the Cumberland Infirmary was 5,274 (5,181). This is the highest figure yet recorded in spite of the shorter treatment now given as the result of the use of Penicillin. Again looking at the figure for each sex we see an increase of 516 male attendances and a decrease of 423 female. Of the above attendances 3012 (3,118) were made by patients residing in Carlisle, a decrease of 106.

In some quarters it was thought that the release of Penicillin in April, 1945, for the treatment of Venereal Diseases would have the effect of rapidly stamping out Syphilis and possibly Gonorrhoea too. The results are sadly disappointing, and the only comfort lies in the thought that without Penicillin the situation now would be appalling. The facilities for treatment would have been quite inadequate, whereas, we have in the past year, carried on without making any change in the arrangements.

Penicillin.

The chief trouble in the use of Penicillin was its rapid elimination from the body. This involved repeated injections at short intervals or continuous administration by the drip method. Now this has been to a great extent overcome by suspending the Penicillin powder in oil and wax. The preparation when warmed to body temperature becomes sufficiently fluid to draw into a syringe. The effect is that, after injection, absorption is slowed down and the intervals between injections can be extended to 12 hours or even 24.

Cases of Gonorrhoea can be cured by one injection, and this is given at the first attendance as soon as the diagnosis has been confirmed microscopically. By the older method of 5 two-hourly injections the patient had to attend the next day in order to complete the treatment in one day. This meant losing a day's work, and it frequently involved delayed treatment and sometimes no treatment. The one injection method is a very definite advance.

The Penicillin treatment of Syphilis still involves admission to hospital. By giving 12-hourly injections the period of in-patient treatment can be cut down to 5 days. In addition the usual course of Arsenic and Bismuth is given, and the treatment can be completed in about 3 months in early cases.

A few have been treated as out-patients (6 residing in Carlisle), but this has not been found to be very successful because attendance at the same hour every day for 8 days

is necessary. Failure to keep the appointments is too common an occurrence to risk this method unless circumstances make it impossible to admit the patient to hospital. It is also probable that injection every 12 hours is better than every 24.

The use of Penicillin for Gonorrhoea has one objection. The comparatively small dose required may conceal infection with Syphilis, but is quite insufficient to cure Syphilis. Hence it is necessary to keep all cases of Gonorrhoea, so treated, under observation for 6 months with Wassermann tests at the end of 3 and 6 months.

Regulation 33B. Contact-tracing and Defaulters.

Regulation 33B is no longer of much importance. The majority of notifications came from the Forces during the war and it is very exceptional to obtain reliable information from patients attending civilian clinics.

In Carlisle 5 persons were notified to the Medical Officer of Health, one of them twice. It was not necessary to use compulsory powers and no prosecutions were undertaken.

The Lady Almoner at the Cumberland Infirmary arranged for voluntary attendance of contacts residing in the City and for the re-attendance of defaulters.

Clinic Sessions and Staff.

At the Cumberland Infirmary the same hours and sessions were maintained, there being 3 sessions for men and 3 for women each week. The staff consists of Medical Officer, Sister, Nurse, Male Attendant, Lady Almoner and Clerk.

The building has now been redecorated throughout, and is clean, bright and pleasant to work in.

In-Patient Treatment.

During the year 68 patients were admitted to the Cumberland Infirmary for Penicillin treatment of Syphilis. Of these 16 resided in Carlisle. One male and one female bed were at the disposal of the Medical Officer.

MATERNITY AND CHILD WELFARE.

1,667 notifications of births, being 267 more than in 1945, were received during the year ; 1,591 of these related to live-births, and 76 to still-births ; 1,628 notifications were by midwives, and 39 by doctors or by persons living in the house. In addition, in 17 instances, a reminder of the statutory duty of notification was necessary.

Health Visitors.

The following is a summary of the visits paid by the Corporation Health Visitors :—

| | |
|---|--------------|
| Primary visits in connection with the notification of births | 1,356 |
| Re-visits to children between :— | |
| 0—1 year | 3,880 |
| 1—5 years | 6,956 |
| | ————— 10,836 |
| Total number of routine visits to children | 12,192 |
| Visits to children nursed or maintained by persons other than the parents | 42 |
| Visits to expectant mothers :— | |
| Primary | 187 |
| Re-visits | 86 |
| | ————— 273 |
| Visits in connection with :— | |
| Deaths of children under 1 year | 74 |
| Ophthalmia Neonatorum | 14 |
| Diarrhoea | 4 |
| Bronchitis | 6 |
| Broncho-pneumonia | 5 |
| Acute Lobar and Influenzal Pneumonia .. | 43 |
| Measles— | |
| Under 5 years | 80 |
| Over 5 years | 16 |
| | ————— 96 |

| | | | | | | |
|-----------------------------------|----|----|----|----|-----|-----|
| Whooping Cough— | | | | | | |
| Under 5 years | .. | .. | .. | .. | 117 | |
| Over 5 years | .. | .. | .. | .. | 101 | |
| Re-visits | .. | .. | .. | .. | 5 | |
| | | | | | — | 223 |
| Chickenpox | .. | .. | .. | .. | .. | 4 |
| Mumps | .. | .. | .. | .. | .. | — |
| German Measles | .. | .. | .. | .. | .. | 1 |
| Pemphigus Neonatorum | .. | .. | .. | .. | .. | — |
| Visits to Child Welfare Centre | | | .. | .. | .. | 133 |
| Visits to Nurseries | .. | .. | .. | .. | .. | 11 |
| Attendances at Ante-natal Clinics | .. | .. | .. | .. | .. | 44 |
| „ „ Immunisation Clinics | | | .. | .. | .. | 10 |

Inspection of Midwives.

40 midwives notified their intention to practise during the year, and were engaged in the Domiciliary Midwifery Service, Nursing Homes, Public Institutions, Private Practice, or by the District Nursing Association. Of these, 5 removed from the City during the year.

During the year the Domiciliary Midwives attended 296 cases as midwives, and 134 cases as maternity nurses.

Corporation Maternity Home.

The following particulars relate to the work of the Maternity Home :—

| | | |
|---|---------|----------|
| Patients in Hospital on 31st December, 1945 | .. | 11 |
| Admitted during year | | 393 |
| | | ————— |
| | | 404 |
| | | ————— |
| Average duration of stay | | 9.6 days |
| Number of cases delivered by midwives | | 374 |
| Number of cases delivered by a doctor | | 11 |
| Total number of confinements | | 385 |
| Number of cases admitted after delivery | | 1 |
| Abortion, miscarriage | | — |
| Number of cases treated ante-natally only | | 15 |
| Puerperal Pyrexia notified | | 3 |

Medical help was called for in connection with 24 deliveries as follows :—

| | | | |
|-------------------------|---|------------------------|----|
| Pre-Eclampsia | 8 | Breech Presentation .. | 1 |
| Extra Uterine Pregnancy | 1 | Adherent Placenta .. | 2 |
| | | Prolonged Labour .. | 10 |

Obstetrical operations were performed as follows :—

| | | | |
|----------------------------|----|----------------------|---|
| Forceps | 9 | Induction of Labour— | |
| Manual Removal of Placenta | 2 | Rupture of Membranes | 6 |
| Repair of Perineum .. | 57 | | |

There were 7 still-births in the following circumstances:—

| | | | |
|--------------------------------------|---|----------------------|---|
| Anencephalic | 1 | Prematurity | 1 |
| Congenital Heart | 1 | Intra Uterine death— | |
| Twin-Pregnancy-1 Extra Uterine | 1 | Cause Unknown .. | 3 |

Eight deaths occurred before the age of ten days, and the causes were as follows, :—

| | |
|------------------------------------|---|
| Prematurity : Twin Pregnancy | 2 |
| Gastro Enteritis | 2 |
| Congenital Heart : Pneumonia | 1 |
| Congenital Heart | 1 |
| Marasmus | 1 |
| Acute Dilatation of Stomach | 1 |

City General Hospital—Maternity Wards.

During the year 689 patients were admitted to the Maternity Wards at the City General Hospital. Of these, 323 were City cases and 366 from the County and other areas.

The number of cases delivered by midwives was 366 (232 City and 134 County patients), and by doctors 106 (48 City and 58 County). 204 patients were admitted for ante-natal treatment only (97 City and 107 County).

Medical help was called for in connection with 225 deliveries (129 City and 96 County).

Four maternal deaths occurred during the year (2 City and 2 County).

51 stillbirths (28 City and 23 County) and 32 deaths of infants within 10 days of birth (13 City and 19 County) occurred during the year.

Ante-natal Clinics.

The number of attendances by expectant mothers at the Ante-Natal Clinics was 6,126 or 2,669 more than last year ; 861 were first visits of new patients. The number of complete examinations made was 3,823, an average of 4.4 per patient. The average number of ante-natal visits per patient was 7.1. 65 cases were found at the ante-natal clinic to present some abnormality.

At the Ante-Natal Clinic held for cases booked by the Domiciliary Midwives, 2,150 attendances were made. 724 cases were seen by the Doctor, including 283 first visits.

Post-natal Clinic.

On discharge from Hospital patients are given a card showing the date when they are expected to attend the post-natal clinic; during the year 213 availed themselves of this service.

Infant Welfare Centre.

During the year a total of 794 children attended the Welfare Centre for the first time. 675 of these were of children under one year on the date of their first attendance, and 119 between the ages of one and five years.

The number of children under five years who attended the Centre during the year was 1,415. At the end of the year 566 of these were under one year of age, and 849 over one year.

Thirty cases were referred to Dr. R. J. Leslie Fraser, Ophthalmic Surgeon, for examination, and 38 cases were referred to the School Dental Officer for advice and examination, 34 of whom received treatment.

Seventy-five children received operative treatment in the City General Hospital for diseases of the ear, nose and throat.

Sixty-eight cases were examined for Minor Ailments at the School Clinic, and in sixty-two cases treatment was received.

Still-births.

The number of still-births notified was 76, as compared with 50 in 1945. Of this number 24 were born of parents not ordinarily resident in the City ; a large proportion of these were in connection with difficult deliveries. The total still-birth rate was 45.5 per 1,000, or 9.8 per 1,000 more than in 1945. The still-birth rate for the Carlisle area alone was 38.2 per 1,000.

Infant Mortality.

The total number of deaths of infants under one year in the City was 78, giving a net infant mortality rate of 59.6 per 1,000; 14.3 per 1,000 more than for 1945. 60 or 76.9 per cent. of the total occurred before the age of four weeks, and 21 of these were due to prematurity.

The number of deaths of legitimate children was 73, or equal to a net rate of 60.1 per 1,000. The number of deaths of illegitimate children resident in the City was 5, equal to a net rate of 53.1 per 1,000.

Infant Mortality,

with deaths from stated causes, at various ages and in various months, of children under one year of age.

| CAUSE OF DEATH | AGE | | | | | | | MONTH | | | | | | | Total Deaths under One Year | | | | | | | |
|--|--------------|-----------|-----------|-----------|---------------------|-------------------------|-----------------------------|-----------------------------|------------------------------|---------|----------|--------|--------|--------|-----------------------------|--------|--------|--------|-----------|---------|----------|----------|
| | Under 1 Week | 1-2 Weeks | 2-3 Weeks | 3-4 Weeks | Total under 4 Weeks | 4 Wks. & under 3 Months | 3 Months and under 6 Months | 6 Months and under 9 Months | 9 Months and under 12 Months | January | February | March | April | May | | June | July | August | September | October | November | December |
| | | | | | | | | | | | | | | | | | | | | | | |
| All Causes { Certified Uncertified | 39 1 | 12 1 | 4 — | 3 — | 58 2 | 7 2 | 5 1 | 3 — | — | 9 1 | 2 — | 6 1 | 3 — | 5 — | 2 — | 7 — | 9 — | 5 — | 7 1 | 8 1 | 10 1 | 73 5 |
| Cerebro-Spinal Fever .. | — | — | — | — | — | — | 1 | — | — | — | 1 | — | — | — | — | — | 2 | — | — | — | — | 1 |
| Pneumonia .. | — | 1 | — | 2 | 3 | 3 | — | 1 | — | 2 | — | 1 | — | — | — | — | 1 | — | 1 | — | 2 | 10 |
| Gastro-Enteritis .. | 1 | 7 | 1 | — | 9 | 2 | — | — | — | 1 | — | — | — | 2 | — | — | — | 1 | 1 | 2 | 4 | 11 |
| Infective Diarrhoea .. | — | — | — | — | — | — | 1 | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | 1 |
| Colitis .. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | 1 |
| Acute Enteritis .. | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 |
| Acute Dilatation of Stomach .. | 1 | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 |
| Birth Injury .. | 2 | — | 1 | — | 3 | — | — | — | — | — | — | 2 | 1 | 1 | — | — | 1 | — | — | — | — | 3 |
| Prematurity .. | 18 | 3 | — | — | 21 | — | — | — | — | 4 | 1 | 2 | 1 | 1 | — | — | — | 3 | 1 | 4 | 2 | 21 |
| Congenital Heart Disease | 3 | 1 | — | 1 | 5 | 1 | — | — | — | 1 | — | — | — | — | — | — | — | 1 | 1 | — | 1 | 6 |
| Spina Bifida .. | 2 | — | — | — | 2 | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | 2 |
| Spinal Meningocele .. | — | — | 1 | — | 1 | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | 1 |
| Marasmus .. | — | 1 | 1 | — | 2 | 1 | — | — | — | 1 | — | 1 | — | — | — | — | — | — | — | — | — | 3 |
| Twin Pregnancy .. | 3 | — | — | — | 3 | — | — | — | — | — | — | — | — | — | — | — | 2 | — | — | — | — | 3 |
| Anencephalus .. | 1 | — | — | — | 1 | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | 1 |
| Congenital Malformation | 1 | — | — | — | 1 | — | — | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | 1 |
| Atelectasis .. | 1 | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 |
| Acute Partum Hemorrhage | 1 | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | 1 | — | 1 | — | — | — | 1 |
| Forceps Delivery .. | 3 | — | — | — | 3 | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | 2 | 3 |
| Pulmonary Atelectasis | 2 | — | — | — | 2 | — | — | — | — | — | — | — | — | — | — | — | — | — | 1 | — | — | 2 |
| Suffocation .. | 1 | — | — | — | 1 | 1 | 1 | 1 | — | — | — | — | — | — | — | — | 1 | — | 2 | — | — | 3 |
| Internal Hydrocephalus | — | — | — | — | — | — | — | 1 | — | — | — | — | — | — | — | — | — | — | — | 1 | — | 1 |
| TOTALS .. | 40 | 13 | 4 | 3 | 60 | 9 | 6 | 3 | — | 10 | 2 | 7 | 3 | 5 | 2 | 7 | 9 | 5 | 8 | 9 | 11 | 78 |

Child Life Protection.

The Health Visitors paid 42 visits as Child Protection Visitors to children under 9 years of age nursed or maintained by persons other than the parents :—

| | | | | | |
|---|----|----|----|----|----|
| Number of foster-parents on the Register at the end of the year | .. | .. | .. | .. | 10 |
| Number of children on the Register :— | | | | | |
| (a) At the end of the year | .. | .. | .. | .. | 10 |
| (b) Who died during the year | | .. | .. | .. | — |
| (c) On whom inquests were held during the year | .. | .. | .. | .. | — |

Care of Premature Babies.

The number of premature babies notified during the year was 94. Particular attention is given by the Health Visitors to premature babies born at home, and at the City General Hospital a special ward has been provided for the care of such babies. Close liaison exists between the hospital and the Health Visitors, and immediately a baby is discharged from hospital the Health Visitor follows up, and gives special attention to the child in its own home. Where necessary the services of a district nurse are made available. Of the total number of premature babies notified 24 were born at home and 70 in hospital. Of the number born at home, 24 were nursed entirely at home, 6 died during the first 24 hours and 18 were living at the end of one month. In the case of those children born in hospital 7 died during the first 24 hours, and 47 were living at the end of one month.

Illegitimacy.

The number of illegitimate births registered was 107 being 67.8 per 1,000 registered births, or 25.0 per 1,000 less than in 1945.

Care of Illegitimate Children.

The Council's arrangements for the care of illegitimate children continued to be administered by Miss Jager, and during the year 56 cases were reported to her from the City. Thirty-five of these were referred by the Public Health Department and the remainder by other welfare agencies or by the mothers or relatives.

In 16 instances the mother was married, but the husband was not the father of the child.

The disposition of the children was by legal adoption, placing with foster parents, voluntary homes, removal from the area or death, or retention by the mothers.

During the year 5 mothers were sent to the Maternity Home at St. Monica's, Kendal.

Five mothers were accommodated in Coledale Hall for varying lengths of stay.

Maternal Mortality.

Six maternal deaths occurred within the City, but only three of the deaths were of persons who resided within the City.

The remaining three were of residents in the County Area.

The certified causes of death of the City residents were as follows :—

- (1) 1a. Intra peritoneal haemorrhage.
 - b. Full term extra uterine pregnancy (Laparotomy performed).
- (2) 1a. Necrotic perforation of the bladder.
 - b. Obstructed labour.
 - c. Hydrocephalus.
11. Forceps delivery under general anaesthesia. P.M.
- (3) Died from Welchii septicæmia following incomplete abortion. P.M.

The mortality rate was 1.81 per 1,000 total births. The average for the five years period ended 1946 was 1.91, and the figures for the separate years are as follows :—

| | | | | | | |
|------|----|----|----|----|----|------|
| 1942 | .. | .. | .. | .. | .. | 0.75 |
| 1943 | .. | .. | .. | .. | .. | 3.6 |
| 1944 | .. | .. | .. | .. | .. | 1.28 |
| 1945 | .. | .. | .. | .. | .. | 2.11 |
| 1946 | .. | .. | .. | .. | .. | 1.81 |

Puerperal Pyrexia.

Sixteen notifications of puerperal pyrexia were received, 15 of which were treated in hospitals.

Ophthalmia Neonatorum.

Eighteen cases of Ophthalmia Neonatorum were notified by medical practitioners. In 7 instances both eyes were affected, but in no case did permanent damage result. Eleven of the cases were treated in hospital, the Nurses of the District Nursing Association undertaking the treatment of the remainder, under the supervision of the doctor in charge of the case.

| CASES. | | | | | Total Blind- ness | Deaths during treat- ment | Number still under treatment at end of the year | Number removed from the District |
|---------------|------------|------------------|---------------------------|--------------------|-------------------------|------------------------------------|---|---|
| Noti- fied | Treated | | Vision un- impaired | Vision impaired | | | | |
| | At Home | In Hos- pital | | | | | | |
| 18 | 7 | 11 | 16 | — | — | — | 1 | 1 |

Infectious Diseases.

The Health Visitors paid 323 visits to cases of zymotic diseases ; the number of visits in this connection being 230 less than in 1945.

REPORT OF SANITARY INSPECTOR

To the Acting Medical Officer of Health.

SIR,

I have to submit a report upon the work of the Sanitary Inspectors during the year 1946.

The information is tabulated in accordance with the practice during the Emergency.

Yours obediently,

W. HANSON,

Sanitary Inspector.

SERVICE OF NOTICES.

The number of informal notices served during the year was 566 ; one statutory notice was served. At the end of the year, works required by 217 notices were still incomplete. following are the particulars of the notices served :—

Public Health Act—

| | | | | | | | |
|----------------------------|----|----|----|----|----|----|-----|
| Preliminary | .. | .. | .. | .. | .. | .. | 373 |
| Statutory | .. | .. | .. | .. | .. | .. | 1 |
| Factories Act | .. | .. | .. | .. | .. | .. | 28 |
| Shops Act | .. | .. | .. | .. | .. | .. | 12 |
| Food and Drugs Act | .. | .. | .. | .. | .. | .. | 153 |
| Total | | | | | | | 567 |
| No. of Complaints received | .. | .. | .. | .. | .. | .. | 576 |

SANITARY INSPECTION OF THE DISTRICT.

| | | | | | |
|---|------------|--|----|----|------|
| Houses inspected | (Ordinary) | .. | .. | .. | 848 |
| " | " | <i>re</i> Water Supply | .. | .. | 57 |
| " | " | Dirty Conditions | .. | .. | 27 |
| " | " | Animals kept | .. | .. | 23 |
| " | " | Sanitary Accommodation | .. | | 223 |
| " | " | Nuisances | .. | .. | 383 |
| No. of Complaints investigated | | .. | .. | .. | 576 |
| No. of Interviews (Owners, Tradesmen, etc.) | | .. | | | 1134 |
| No. of Smoke Observations | .. | .. | .. | .. | 31 |
| No. of Inspections of Courts and Lanes | .. | .. | | | 164 |
| " | " | Tents, Vans, Sheds, etc. | .. | | 24 |
| " | " | Entertainment Houses | .. | | 94 |
| " | " | Schools | .. | .. | 1 |
| " | " | Factories with Mechanical Power | | | 634 |
| " | " | Factories without Mechanical Power | | | 119 |
| " | " | Meat Preparation Premises | .. | | 263 |
| " | " | Bakehouses—ordinary | .. | | 241 |
| " | " | Bakehouses—basement | .. | | 2 |
| " | " | Restaurant Kitchens and Cafes | | | 152 |
| " | " | Other Food Premises | .. | | 85 |
| " | " | Shops (Shops Acts) | .. | | 265 |
| " | " | Shops <i>re</i> Meat and other Foods | | | 404 |
| " | " | Dairies | .. | .. | 143 |
| " | " | Cowsheds | .. | .. | 128 |
| " | " | Slaughter-houses | .. | .. | 561 |
| " | " | Markets | .. | .. | 65 |
| " | " | Fried Fish Shops | .. | .. | 118 |
| " | " | Ice Cream Premises | .. | .. | 185 |
| " | " | Offensive Trade Premises | .. | | 21 |
| " | " | Stable Premises | .. | .. | 61 |
| " | " | Drains | .. | .. | 384 |
| " | " | Refuse Tips | .. | .. | 61 |
| " | " | Lavatories and Urinals | .. | | 56 |
| " | " | Watercourses | .. | .. | 41 |
| " | " | Common Lodging-houses | .. | | 10 |
| " | " | <i>re</i> Rats and Mice Destruction Act | | | 177 |
| " | " | <i>re</i> Offensive Accumulations and Refuse | | | 79 |
| No. of Miscellaneous Inspections | .. | .. | .. | .. | 759 |

| WORKS EXECUTED. | | | | | <i>By</i> | <i>Without</i> |
|---|----|----|----|----|----------------|----------------|
| DWELLING HOUSES :— | | | | | <i>Notice.</i> | <i>Notice.</i> |
| Disinfected | .. | .. | .. | .. | — | 201 |
| Cleansed or disinfested | .. | .. | .. | .. | 6 | 1 |
| Spouting cleaned, repaired or renewed | .. | .. | .. | .. | 105 | 40 |
| Spouting disconnected from drains | .. | .. | .. | .. | 8 | — |
| Water services repaired | .. | .. | .. | .. | 30 | 4 |
| Yards paved or repaired | .. | .. | .. | .. | 5 | — |
| Roofs reconstructed or repaired | .. | .. | .. | .. | 38 | 8 |
| Chimneys repaired or pointed | .. | .. | .. | .. | 9 | 1 |
| External walls rendered, pointed or re- paired | .. | .. | .. | .. | 23 | 2 |
| Internal walls and ceilings plastered and repaired | .. | .. | .. | .. | 44 | 8 |
| Fireplaces and flues repaired | .. | .. | .. | .. | 10 | 1 |
| Windows repaired | .. | .. | .. | .. | 14 | 2 |
| Doors repaired | .. | .. | .. | .. | 3 | 1 |
| Floors repaired or re-laid | .. | .. | .. | .. | 12 | 3 |
| Stairs repaired | .. | .. | .. | .. | 3 | — |
| Lead D.P.C. installed | .. | .. | .. | .. | — | 1 |
| Sub-floor ventilation improved | .. | .. | .. | .. | 1 | 1 |
| Wash-house boilers repaired or renewed | .. | .. | .. | .. | 7 | — |
| Outbuildings repaired | .. | .. | .. | .. | 1 | 1 |

FACTORIES WITH MECHANICAL POWER :—

| | | | | |
|---|----|----|----|---|
| Sanitary Accommodation improved re- paired or re- decorated | .. | 10 | .. | 1 |
| „ „ additional provided | .. | 5 | .. | 2 |
| „ „ provided separate for sexes | .. | 5 | .. | 1 |
| „ „ I.V.S. provided | .. | — | .. | 1 |
| Washing facilities provided | .. | 1 | .. | 1 |

By Without
Notice. Notice.

FACTORIES WITHOUT MECHANICAL POWER :—

| | | | | | |
|---------------------------------|----|----|---|----|---|
| Cleansed and lime-washed | .. | .. | 2 | .. | — |
| Heating improved | .. | .. | 1 | .. | — |
| Ventilation improved | .. | .. | 1 | .. | — |
| Sanitary Accommodation provided | .. | | 2 | .. | 1 |
| „ „ I.V.S. provided | | | 1 | .. | 1 |

BAKEHOUSES :—

| | | | | | |
|--|----|----|----|----|---|
| Cleansed and re-decorated | .. | .. | 33 | .. | 1 |
| Ventilation improved | .. | .. | 2 | .. | 2 |
| Ceilings underlined | .. | .. | 1 | .. | 1 |
| Walls and ceilings repaired | .. | .. | 2 | .. | — |
| Floors repaired or re-laid | .. | .. | 5 | .. | 2 |
| Hot water supply provided | .. | .. | 2 | .. | 1 |
| New sinks installed | .. | .. | 1 | .. | 1 |
| Premises extended and improved | .. | | 1 | .. | 5 |
| Electric or gas ovens to replace solid fuel ovens | .. | .. | — | .. | 4 |
| Sanitary Accommodation provided separate for sexes | .. | .. | 3 | .. | 1 |
| „ „ I.V.S. provided | | | 1 | .. | — |
| „ „ cleansed and repaired | | .. | 2 | .. | — |
| Drain openings moved from inside building | .. | .. | 1 | .. | — |
| Ceased storing fuel in bakehouse | .. | | 2 | .. | — |

BASEMENT BAKEHOUSES :—

| | | | | | |
|-------------------------------------|----|--|---|----|---|
| Cleansed and lime-washed or painted | .. | | 1 | .. | — |
|-------------------------------------|----|--|---|----|---|

By Without
Notice. Notice.

MEAT PREPARATION PREMISES AND BUTCHERS' SHOPS :—

| | | | | | |
|--|----|----|----|----|---|
| Cleansed and re-decorated | .. | .. | 21 | .. | 7 |
| Ceilings underlined or repaired | .. | .. | 4 | .. | 1 |
| Wall surfaces improved | .. | .. | 1 | .. | 2 |
| Roof repaired | .. | .. | 1 | .. | — |
| Ventilation improved | .. | .. | 2 | .. | 1 |
| Lighting improved | .. | .. | 3 | .. | 2 |
| Premises structurally improved | .. | .. | — | .. | 1 |
| Equipment and fittings cleansed | .. | | 1 | .. | — |
| Articles likely to contaminate meat prohibited | .. | .. | 3 | .. | — |
| Tripe dressing discontinued | .. | .. | 1 | .. | — |
| New meat counter to replace defective | | | 1 | .. | — |

RESTAURANT KITCHENS :—

| | | | | | |
|---------------------------------|----|----|----|----|---|
| Cleansed and re-decorated | .. | .. | 10 | .. | 1 |
| Ventilation improved | .. | .. | 5 | .. | 3 |
| Lighting improved | .. | .. | 2 | .. | — |
| Sanitary accommodation improved | .. | | 5 | .. | — |
| Premises structurally improved | .. | .. | 1 | .. | 1 |

ICE-CREAM PREMISES :—

| | | | | | |
|---|----|----|---|----|---|
| Preparation rooms provided | .. | .. | 2 | .. | 3 |
| „ „ improved | .. | .. | — | .. | 5 |
| „ „ cleansed and re-decorated | .. | .. | 1 | .. | — |
| Ceilings repaired | .. | .. | 1 | .. | — |
| Wall surfaces improved | .. | .. | — | .. | 1 |
| Sink and water supply installed | .. | | — | .. | 1 |
| Fly-proof cupboards or refrigerators installed | .. | .. | — | .. | 2 |
| Sale or preparation from unsuitable premises discontinued | .. | .. | 2 | .. | — |
| Name and address inscribed on retailer's vehicle | .. | .. | 1 | .. | — |

By *Without*
Notice. *Notice.*

FISH FRYING :—

| | | | | | | | |
|---|----|----|----|----|---|----|---|
| Preparation rooms cleansed and re-decorated | .. | .. | .. | .. | 8 | .. | 3 |
| Wall surfaces improved | .. | .. | .. | .. | 1 | .. | 1 |
| Ceilings repaired | .. | .. | .. | .. | 1 | .. | — |
| Ventilation improved | .. | .. | .. | .. | 2 | .. | — |
| New floors laid | .. | .. | .. | .. | 1 | .. | 2 |
| Fuel bunkers provided | .. | .. | .. | .. | 2 | .. | — |
| Shops re-decorated and improved | .. | .. | .. | .. | 1 | .. | 5 |
| New, gas or electric, frying ranges | .. | .. | .. | .. | — | .. | 3 |

OTHER FOOD PREMISES :—

| | | | | | | | | |
|-------------------------|----|----|----|----|----|---|----|---|
| Cleansed | .. | .. | .. | .. | .. | 1 | .. | — |
| Floors repaired | .. | .. | .. | .. | .. | 1 | .. | — |
| Ceilings underlined | .. | .. | .. | .. | .. | 1 | .. | — |
| New equipment installed | .. | .. | .. | .. | .. | — | .. | 1 |

MILK AND DAIRIES ORDER :—

Dairies :—

| | | | | | | | | |
|---|----|----|----|----|----|---|----|---|
| Cleansed and lime-washed or re-decorated | .. | .. | .. | .. | .. | 2 | .. | 7 |
| New dairy, cowshed, and milk-room established | .. | .. | .. | .. | .. | — | .. | 1 |

Byres—

| | | | | | | | |
|--------------------------|----|----|----|----|---|----|----|
| Cleansed and Lime-washed | .. | .. | .. | .. | 3 | .. | 15 |
|--------------------------|----|----|----|----|---|----|----|

SHOPS ACT, 1934 :—

| | | | | | | | |
|---|----|----|----|----|---|----|---|
| Sanitary accommodation provided | .. | .. | .. | .. | 5 | .. | 1 |
| „ „ improved | .. | .. | .. | .. | 1 | .. | — |
| „ „ cleansed and repaired | .. | .. | .. | .. | 3 | .. | — |
| Washing facilities provided or improved | .. | .. | .. | .. | 4 | .. | 1 |
| Ventilation improved | .. | .. | .. | .. | 2 | .. | — |

| | | | | <i>By Notice.</i> | <i>Without Notice.</i> |
|---|----|----|----|-----------------------|----------------------------|
| DRAINAGE :— | | | | | |
| Constructed (new) | .. | .. | .. | 11 | 3 |
| Re-constructed (old) | .. | .. | .. | 2 | — |
| Cleansed or repaired | .. | .. | .. | 56 | 5 |
| Self-cleansing gullies provided | .. | .. | | 18 | 6 |
| Smoke, chemical, or water tested | | | .. | — | 7 |
| Gullies cleansed or repaired | .. | .. | | 5 | 1 |
| Inspection chambers installed | .. | .. | | 2 | — |
| Drains discharging into watercourse connected to sewer | .. | .. | .. | 1 | — |
| Water carriage drainage installed to replace conservancy method | .. | .. | | — | 1 |
| SINKS AND OTHER SANITARY FITTINGS :— | | | | | |
| New Sinks installed | .. | .. | .. | 16 | 13 |
| Baths or W.H.B's. installed | .. | .. | | 12 | 10 |
| Trapped waste-pipes fitted or repaired | .. | | | 26 | 12 |
| WATER CLOSETS :— | | | | | |
| Repaired or cleansed | .. | .. | .. | 15 | 2 |
| New W.C's. provided | .. | .. | .. | 17 | 4 |
| Pedestal W.C's. installed to replace defective fittings, or short-hoppers | | | .. | 29 | 3 |
| New flushing cisterns installed | .. | .. | | 22 | 2 |
| Flushing cisterns repaired | .. | .. | | 12 | — |
| Soil and vent, pipes installed | .. | .. | | 1 | 1 |
| Apartments repaired | .. | .. | .. | 1 | — |
| URINALS :— | | | | | |
| Cleansed or repaired | .. | .. | .. | 1 | 22 |
| New installed | .. | .. | .. | 1 | — |
| White glazed urinals installed to replace obsolete fittings | .. | .. | .. | 1 | 3 |
| Automatic flushing cisterns provided | .. | | | 2 | — |

By *Without*
Notice. *Notice.*

ENTERTAINMENT HALLS, CINEMAS :—

| | | | |
|--|---|----|---|
| Sanitary accommodation improved .. | 2 | .. | — |
| Indication as to position of sanitary accommodation provided | 1 | .. | — |
| Re-decorated | 1 | .. | 1 |

COURTS AND LANES :—

| | | | |
|------------------------------|---|----|---|
| Yard pavement repaired | 2 | .. | — |
|------------------------------|---|----|---|

TENTS, VANS, SHEDS, ETC. :—

| | | | |
|-------------------------------------|---|----|---|
| Removed from unlicensed sites | 1 | .. | — |
|-------------------------------------|---|----|---|

OFFENSIVE TRADES :—

| | | | |
|--|---|----|---|
| Nuisance, connected with trade, abated | 1 | .. | — |
|--|---|----|---|

RODENT CONTROL :—

| | | | |
|--|---|----|---|
| Structural work, rat-proofing, etc. .. | 5 | .. | 2 |
|--|---|----|---|

WORKPLACES :—

| | | | |
|---|---|----|---|
| Washing facilities provided | 1 | .. | — |
| W.C's. cleansed and apartments re-decorated | 2 | .. | — |

OFFENSIVE ACCUMULATIONS AND DEPOSITS OF REFUSE :—

| | | | |
|-----------------|----|----|---|
| Removed | 11 | .. | — |
|-----------------|----|----|---|

NUISANCES :—

| | | | |
|--|---|----|---|
| Arising from the keeping of swine or other animals, abated | 4 | .. | — |
| Arising from the emission of smoke, abated | 4 | .. | — |
| Factory, Automatic stoker installed to boiler | — | .. | 1 |

STREAMS AND WATERCOURSES :—

| | | | |
|------------------|---|----|---|
| Cleansed | 2 | .. | — |
|------------------|---|----|---|

MISCELLANEOUS :—

| | | | |
|------------------------------|----|----|---|
| Not classified above | 10 | .. | — |
|------------------------------|----|----|---|

FOOD AND DRUGS ACT.

The foods sampled were representative, and special attention was given to certain articles of food which had caused comment or were suspect for any reason.

The following are the particulars relating to samples submitted to the Public Analyst :—

| Article | No. of Samples | No. found to be genuine | No. adulterated |
|----------------------------|----------------|-------------------------|-----------------|
| Milk | 14 | 14 | — |
| Butter and Fats | 3 | 3 | — |
| Jams | 3 | 3 | — |
| Cereals | 3 | 3 | — |
| Condiments and Flavourings | 12 | 12 | — |
| Tea, Coffee, Cocoa.. .. | 12 | 12 | — |
| Spirits | 3 | 3 | — |
| Meat and Fish Products .. | 8 | 8 | — |
| Self-raising Flour | 2 | 1 | 1 |
| Patent Flour Mixtures .. | 5 | 5 | — |
| Baking Powder | 3 | 3 | — |
| Gelatine | 2 | 2 | — |
| Dried Fruit | 2 | 2 | — |
| Sauce.. .. . | 1 | 1 | — |
| Bi-carbonate of Soda | 3 | 3 | — |
| Ice Cream Powder | 2 | 2 | — |
| Miscellaneous | 13 | 13 | — |
| Total | 91 | 90 | 1 |

All samples, other than milk, were informal.

Only one unsatisfactory sample was returned; Self-raising Flour. The vendor was warned, and letters sent to wholesalers and large retailers directing attention to possible deterioration from prolonged storage.

APPENDICES.

The following tables give the number of animals killed annually during the past three years :—

PUBLIC SLAUGHTER-HOUSES.

| Year | Cattle | Sheep & Lambs | Calves | Pigs | Total |
|------|--------|------------------|--------|------|--------|
| 1944 | 4,571 | 45,568 | 5,353 | 145 | 55,637 |
| 1945 | 4,234 | 34,981 | 7,467 | 377 | 47,059 |
| 1946 | 4,896 | 21,584 | 2,784 | 159 | 29,423 |

L. M. & S. and L. & N.E. RAILWAY SLAUGHTER-HOUSES.

No killing.

HARRABY BACON FACTORY.

| | | | | | |
|------|---|---|-------|--------|--------|
| 1944 | — | — | — | 41,521 | 41,521 |
| 1945 | — | — | — | 61,361 | 61,361 |
| 1946 | — | — | 3,318 | 39,728 | 43,046 |

PUBLIC SLAUGHTER-HOUSES.

Table showing incidence of Tuberculosis in Food Animals.

| ANIMAL. | No. Slaughtered | No. Affected. | Percentage. | Amount unfit for food. | | |
|--------------|--------------------|------------------|-------------|------------------------|-------------------|--------|
| | | | | Whole Carcases. | Part Carcases. | Offal. |
| Cows | 1593 | 443 | 27.8 | 66 | 88 | 289 |
| Other Cattle | 3303 | 266 | 8.1 | 18 | 33 | 215 |
| Calves | 2784 | 16 | 0.6 | 14 | — | 2 |
| Pigs | 159 | 2 | 1.3 | — | 2 | — |
| Total | 7839 | 727 | | 98 | 123 | 506 |

RODENT CONTROL.

Refuse Tips.

Six refuse tips were subjected to a total of 20 treatments, necessitating 5 to 7 visits for each treatment. The number of pre-baits laid was 2,406 and the number of poison baits 756. As a result, 511 dead rats were actually recovered, representing a kill, based on the amount of poison taken, of some 2,800 rats. On eleven other occasions test baitings were conducted, with negative results.

Other Premises.—(Slaughterhouses, Salvage Depot, Private Properties).

Treatments were carried out on 37 occasions; total number of pre-baits 979, poison baits 263. Although 116 carcasses were actually counted, the estimated kill was just over 900. Tests were applied to 32 other premises with negative results.

The number of complaints received and investigated was 110. As a result 18 notices were served on owners or occupiers specifying works relating to ratproofing, removal of accumulations, control of animals, fowls, etc. Employees of the Department accounted for 109 rats at our own premises.

Sewers.

Comprehensive treatment was undertaken of all the sewers in the City, comprising 20 sectors. In the older or denser parts of the City (Sectors 1-11) two complete treatments were given during the year. On the outer or less populated sectors one test treatment was given which showed, in the main, no infestation. The number of sewer manholes receiving full treatment was 531. The procedure was 4 days' pre-baiting and one poison baiting. The estimated kill, according to the Ministry of Food's formula, was in the region of 3,000.

Table showing number of Carcases and Part Carcases condemned for diseases other than Tuberculosis.

| DISEASE OR CONDITION | Unfit for Food. | | | | | | | |
|--------------------------------|-----------------|--------|-------|---------|----------------|--------|-------|---------|
| | Whole Carcases. | | | | Part Carcases. | | | |
| | Cattle. | Sheep. | Pigs. | Calves. | Cattle. | Sheep. | Pigs. | Calves. |
| Inflammatory diseases :— | | | | | | | | |
| Pneumonia, Pleurisy, | | | | | | | | |
| Peritonitis, etc. .. | 4 | 7 | 1 | 4 | 8 | 58 | — | — |
| Febrile condition, Ill-bled .. | 4 | 34 | 2 | 16 | — | — | — | — |
| Emaciation, Ill-set .. | 31 | 82 | — | 9 | — | — | — | — |
| Oedema.. .. | — | 52 | — | 2 | 7 | 12 | — | — |
| Actinomycosis .. | 4 | — | — | 1 | 6 | — | — | — |
| Johne's Disease .. | 10 | — | — | — | — | — | — | — |
| Injuries, Accidents, &c. .. | 3 | 10 | — | — | 79 | 46 | 4 | 3 |
| Arthritis Atrophy .. | 1 | 6 | — | 1 | 19 | 51 | 5 | 2 |
| Malnutrition .. | — | 3 | — | 72 | — | — | — | — |
| Immaturity, Foetal .. | — | — | — | 33 | — | — | — | — |
| Post-mortem putrefaction .. | — | 1 | — | — | — | — | — | — |
| Odour.. .. | 2 | — | — | — | — | — | — | — |
| White Scour .. | — | — | — | 2 | — | — | — | — |
| Abscesses and Suppurative | | | | | | | | |
| Conditions.. .. | — | — | — | — | 8 | 14 | — | — |
| Pyæmia, Joint Ill, Navel Ill | — | — | — | 11 | — | — | — | — |
| Septicæmia and other Septic | | | | | | | | |
| Conditions .. | 18 | — | 2 | 1 | — | — | — | — |
| Septic Pericarditis .. | 1 | — | — | — | — | — | — | — |
| Jaundice.. .. | — | 1 | — | — | — | — | — | — |
| Anaemia .. | — | 20 | — | — | — | — | — | — |
| Uræmia .. | — | 1 | — | — | — | — | — | — |
| Nephritis .. | 1 | — | — | — | — | — | — | — |
| Mastitis .. | 2 | — | — | — | 11 | 4 | — | — |
| Tumours .. | 1 | 1 | — | — | 1 | — | — | — |
| Urticaria .. | — | — | — | — | — | — | 1 | — |
| Whole Carcases .. | 82 | 218 | 5 | 152 | — | — | — | — |
| Part Carcases .. | — | — | — | — | 139 | 185 | 10 | 5 |

DISEASED AND UNSOUND FOOD.

The following table shows the amount of food declared
to be unfit for consumption during 1946 :—

| | | | | Tons Cwts. Qrs. Lbs. | | | |
|-------------------------|----|----|----|----------------------|----|----------------------|--------|
| PUBLIC SLAUGHTERHOUSES. | | | | | | | |
| Beef | .. | .. | .. | 38 | 1 | — | 9 |
| Offals | .. | .. | .. | 38 | 13 | 1 | 23 |
| Mutton | .. | .. | .. | 3 | 8 | — | 11 |
| Offals | .. | .. | .. | 2 | 4 | 2 | 8 |
| Veal | .. | .. | .. | 2 | 13 | 1 | 26 |
| Offals | .. | .. | .. | — | 16 | 3 | 21 |
| Pork | .. | .. | .. | — | 10 | 3 | 9 |
| Offals | .. | .. | .. | — | 2 | — | 13 |
| | | | | | | | |
| | | | | | | Tons Cwts. Qrs. Lbs. | |
| | | | | | | 86 | 10 2 8 |

| | | | | Tons Cwts. Qrs. Lbs. | | | |
|------------------------|----|----|----|----------------------|----|----------------------|-------|
| HARRABY BACON FACTORY. | | | | | | | |
| Pork | .. | .. | .. | 3 | 10 | — | 21 |
| Offals | .. | .. | .. | 1 | 8 | — | 21 |
| Veal | .. | .. | .. | — | 14 | 3 | 13 |
| Offals | .. | .. | .. | — | 7 | 3 | 2 |
| | | | | | | | |
| | | | | | | Tons Cwts. Qrs. Lbs. | |
| | | | | | | 6 | 1 — 1 |

| | | | | Tons Cwts. Qrs. Lbs. | | | |
|----------------------|----|----|----|----------------------|-----|----------------------|--------|
| OTHER SOURCES. | | | | | | | |
| Beef | .. | .. | .. | — | 3 | 1 | 7 |
| Meat Products | .. | .. | .. | — | 6 | 1 | 3 |
| Bacon | .. | .. | .. | — | 1 | — | 13 |
| Fish | .. | .. | .. | 1 | — | 3 | 15 |
| Tinned Meat | .. | .. | .. | — | 7 | 3 | 4 |
| Cereals | .. | .. | .. | 4 | 16 | 1 | 9 |
| Fruit and Vegetables | .. | .. | .. | 9 | 12 | — | 1 |
| Miscellaneous | .. | .. | .. | — | 11 | — | 6 |
| | | | | | | | |
| | | | | | | Tons Cwts. Qrs. Lbs. | |
| | | | | | | 16 | 18 3 2 |
| | | | | | | | |
| | | | | Total | 109 | 10 | 1 11 |

Other tinned foods :—4,129 tins.

